

INFORMATION DISCLOSURE
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23

Attorney Docket No: 050542

Examiner Name _____

JUNIMA, NIIAYA

Application Number

05/031459

Filing Date

8/16/2001

Art Unit

2462

Examiner Name _____

JUNIMA, NIIAYA

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number/Kind (2017 Revised)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US-4975652	12-04-1990	MABEY, Peter J. et al.	
	002	US-5008900	04-16-1991	CRITCHLOW, David N. et al.	
	003	US-5115248	05-19-1992	ROEDERER, Antoine et al.	
	004	US-5363408	11-08-1994	PAIK, Woo H. et al.	
	005	US-5371761	12-06-1994	DAFFARA, Flavio et al.	
	006	US-5384810	01-24-1995	AMRANY, Daniel et al.	
	007	US-5455839	10-03-1996	EYUBOGLU, M. Vedat et al.	
	008	US-5513379	04-30-1996	BENVENISTE, Mathilde et al.	
	009	US-5639748	07-23-1996	RAITH, Alex K. et al.	
	010	US-5604744	02-18-1997	ANDERSSON, H. ang kan C. et al.	
	011	US-5726978	03-10-1998	FRODIGH, Carl Magnus et al.	
	012	US-5732113	03-24-1998	SCHMIDT, Timothy M. et al.	
	013	US-5768276	06-16-1998	DIACHINA, John W. et al.	
	014	US-5816488	09-29-1998	WILLIAMS, Thomas H. et al.	
	015	US-5920571	07-06-1999	HOUC, David J. et al.	
	016	US-5926470	07-20-1999	TIEDEMANN, Jr., Edward G. et al.	
	017	US-5953325	09-14-1999	WILLIAMS, Per et al.	
	018	US-5996992	11-30-1999	ECKARD, Clinton B. et al.	

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Application Number

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Filing Date

8/16/2000

Art Unit

2462

Examiner Name:

MINIMA, NILIYAY

Attorney Docket No: 060542

U.S. PATENT DOCUMENTS

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PTO/GB/09A (07-00)

Application Number		09/931469
Filing Date		8/6/2001
First Named Inventor		LAROIA, Rajiv, et al.
Art Unit		2462
Examiner Name		JUNTIMA, NITTAYA
Attorney Docket No.: 060542		

Examiner Initials	Cite No.	Document Number	U.S. PATENT DOCUMENTS		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
			Publication Date	MM-DD-YYYY	
	040	US-6744743	06-01-2004		WALTON, Jay R. et al.
	041	US-6748220	06-08-2004		CHOW, Jocelyn Yuet Kiu et al.
	042	US-6751456	06-15-2004		BILGIC, Izzet M. et al.
	043	US-6765969	07-20-2004		VOOK, Frederick W. et al.
	044	US-6776165	08-17-2004		JIN, Sungjo et al.
	045	US-6776765	08-17-2004		SOUKUP, Thomas M. et al.
	046	US-6802035	10-05-2004		CAIREUX, Sevienne et al.
	047	US-6831943	12-14-2004		DABAK, Anand G. et al.
	048	US-6870808	03-22-2005		LIU, Hui et al.
	049	US-6907269	06-14-2005		YAMAGUCHI, Ryo et al.
	050	US-6927728	08-09-2005		VOOK, Frederick W. et al.
	051	US-6934266	08-23-2005		DOLIN, David R. et al.
	052	US-6934340	08-23-2005		DOLLARD, Michael S. et al.
	053	US-6940845	09-06-2005		BENVENISTE, Mathilde et al.
	054	US-6954448	10-11-2005		FARLEY, Kevin L. et al.
	055	US-6954481	10-11-2005		LAROIA, Rajiv et al.
	056	US-6954622	10-11-2005		NELSON, David S. et al.
	057	US-6961364	11-01-2005		LAROIA, Rajiv et al.
	058	US-6970682	11-29-2005		CRILLY, J. William J. et al.
	059	US-6985466	01-10-2006		YUN, Louis C. et al.

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Sheet 4 of 23

Attorney Docket No: 060542

Application Number	09/931469
Filing Date	8/16/2001
First Named Inventor	LAROLA, Rajiv, et al
Art Unit	2462
Examiner Name	JUNTIMA, NITTAYA

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.†	Document Number	U.S. PATENT DOCUMENTS		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or References Appear
			Publication Date MM-DD-YYYY			
	060	US-65993342	01-31-2006		KUCHIBHOTLA, Ravi et al.	
	061	US-70029600	02-21-2006		WALTON, J. Rodney et al.	
	062	US-70065529	02-28-2006		ALASTALO, Ari et al.	
	063	US-7013143	03-14-2006		LOVE, Robert T. et al.	
	064	US-7020110	03-28-2006		WALTON, Jay Rod et al.	
	065	US-7039336	05-02-2006		NGUYEN, Hung et al.	
	066	US-7039370	05-02-2006		LAROLA, Rajiv et al.	
	067	US-7042857	05-09-2006		KRISHNAN, Ranganathan et al.	
	068	US-7047006	05-16-2006		CLASSON, Brian K. et al.	
	069	US-7054301	05-30-2006		SOUSA, Ewino S. et al.	
	070	US-7079867	07-18-2006		CHUN, Byung-jin et al.	
	071	US-7089630	08-29-2006		BRUNNER, Christopher et al.	
	072	US-7103354	09-05-2006		CHUN, Byung-jin et al.	
	073	US-7113808	09-26-2006		HWANG, Chan-soo et al.	
	074	US-7120395	10-10-2006		TONG, Wen et al.	
	075	US-7126928	10-24-2006		TIEDEMANN, Jr., Edward G. et al.	
	076	US-7131056	10-31-2006		YAMASAKI, Junya et al.	
	077	US-7139328	11-21-2006		THOMAS, Timothy A. et al.	
	078	US-7142854	11-28-2006		LAROLA, Rajiv et al.	

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Application Number: 09/931469
Filing Date: 8/16/2001
First Named Inventor: LAROLA, Rajiv, et al.
Art Unit: 2462
Examiner Name: JUNTIMA, NITTAYA

Attorney Docket No.: 060542

Sheet 5 of 23

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	079	US-7145940	12-05-2006	GORE, Dharmajay Ashok et al.	
	080	US-7145959	12-05-2006	HAMEL, Haim et al.	
	081	US-7149199	12-12-2006	SUNG, Dan-keun et al.	
	082	US-7151761	12-19-2006	PALENIUS, Torigny et al.	
	083	US-7154935	12-26-2006	BUERKE, Bjorn A. et al.	
	084	US-7155235	12-26-2006	CHEN, Tao et al.	
	085	US-7164649	01-16-2007	WALTON, Jay R. et al.	
	086	US-7167916	01-23-2007	WILLEN, James W. et al.	
	087	US-7177297	02-13-2007	AGRAWAL, Aayneesh et al.	
	088	US-7184426	02-27-2007	PADOVANI, Roberto et al.	
	089	US-7197262	03-27-2007	DENT, Paul W. et al.	
	090	US-7209712	04-24-2007	HOLTZMAN, Jack M. et al.	
	091	US-7230942	06-12-2007	LAROLA, Rajiv et al.	
	092	US-7236747	06-26-2007	MEACHAM, Dan et al.	
	093	US-7242722	07-10-2007	KRAUSS, Thomas P. et al.	
	094	US-7243150	07-10-2007	SHER, Sharon et al.	
	095	US-7248641	07-24-2007	AGREE, Brian G. et al.	
	096	US-7254158	08-07-2007	AGRAWAL, Aayneesh et al.	
	097	US-7257167	08-14-2007	LAU, Kin Nang et al.	
	098	US-7257406	08-14-2007	Ji, Tingfang et al.	
	099	US-7257423	08-14-2007	IOCHI, Hitoshi et al.	

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Application Number	09/931469
Filing Date	8/16/2001
First Named Inventor	LAROLA, Rajiv, et al
Art Unit	2462
Examiner Name	JUNTIMA, NITTAYA
Attorney Docket No.	060542

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Examiner Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	100	US-7289570	10-30-2007	SCHMIDL, Timothy et al	
	101	US-7289585	10-30-2007	SANDHU, Sumet et al	
	102	US-7290185	10-30-2007	GUO, Zhihua et al	
	103	US-7292863	11-06-2007	CHEN, Lan et al	
	104	US-7330701	02-12-2008	MUKKAVILLI, Krishna Kiran et al	
	105	US-7336727	02-26-2008	MUKKAVILLI, Krishna Kiran et al	
	106	US-7349371	03-25-2008	SCHIEIN, Brett et al	
	107	US-7349667	03-25-2008	MAGEE, David Patrick et al	
	108	US-7356000	04-08-2008	OPRESCU-SURCOBEI, Valentin et al	
	109	US-7356005	04-08-2008	DERRYBERRY, R. Thomas et al	
	110	US-7366223	04-29-2008	KIM, Sung-jin et al	
	111	US-7366253	04-29-2008	LINDSKOG, Erik D. et al	
	112	US-7372912	05-13-2008	SEO, Dong-young et al	
	113	US-7372912	05-13-2008	UEHARA, Teruaki et al	
	114	US-7382764	06-03-2008	BAKER, Matthew P. J. et al	
	115	US-7392014	06-24-2008	BORRAN, Mohammad Jaber et al	
	116	US-7394865	07-01-2008	DOMINIQUE, Francis et al	
	117	US-7403745	07-22-2008		

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PTO/SP006, 07-08

Application Number		09/931469
Filing Date		8/16/2001
First Named Inventor		LARJOIA, Rajiv, et al
Art Unit		2462
Examiner Name		JUNITIMA, NITTAYA
Attorney Docket No: 060542		

U.S. PATENT DOCUMENTS			Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Examiner Initials*	Cite No. ¹	Document Number Publication Date MM-DD-YYYY	
	118	US-7406119 07-29-2008	YAMANO, Larry C. et al.
	119	US-7411898 08-12-2008	ERLICH, Yossi et al.
	120	US-7412212 08-12-2008	HOTTINEN, Ari et al.
	121	US-7418246 08-26-2008	KIM, Jae-woo et al.
	122	US-7423991 09-09-2008	CHO, Sung-hyun et al.
	123	US-7426426 09-16-2008	VAN BAREN, Philip D. et al.
	124	US-7428426 09-23-2008	KIRAN, Kiran et al.
	125	US-7437164 10-14-2008	AGRAWAL, Avneesh et al.
	126	US-7447270 11-04-2008	HOTTINEN, Ari et al.
	127	US-7469011 12-23-2008	LIN, Chin-lung et al.
	128	US-7483408 01-27-2009	BEVAN, David Damian Nicholas, et al.
	129	US-7483719 01-27-2009	KIM, Eung-sun et al.
	130	US-7486408 02-03-2009	VAN DER SCHAAR: Maurits et al.
	131	US-7486735 02-03-2009	DUBUC, Christian et al.
	132	US-7492788 02-17-2009	ZHANG, Hang et al.
	133	US-7499363 03-03-2009	OZUTURK, Fatih et al.
	134	US-7508842 03-24-2009	BAUM, Kevin L. et al.
	135	US-7512086 03-31-2009	KUZMINSKIY, Alexandr et al.
	136	US-7548506 06-16-2009	MA, Jiangfei et al.

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Application Number	06/931469
Filing Date	8/16/2001
First Named Inventor	LAROLA, Raul, et al
Art Unit	2462
Examiner Name	JUNTIMA, NITTAYA
Attorney Docket No.	060542

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
137	US-7551546	06-23-2009	MA, Jianglei et al.		
138	US-7558293	07-07-2009	CHOI, Seung-hoon et al.		
139	US-7573900	08-11-2009	KIM, Sung-jin et al.		
140	US-7616955	11-10-2009	KIM, Joonsuk et al.		
141	US-7627051	12-01-2009	SHEN, Jun et al.		
142	US-20010021650	09-13-2001	BILGIC, IZZET M. et al.		
143	US-20010047424	11-29-2001	ALASTALO, ARI, et al.		
144	US-20010055284	12-27-2001	MOTOYOSHI, GEN, et al.		
145	US-20010055297	12-27-2001	BENVENISTE, MATHILDE, et al.		
146	US-20020000948	01-03-2002	CHUN, BYUNG-JIN, et al.		
147	US-20020039912	04-04-2002	YAMAGUCHI, RYO, et al.		
148	US-20020068525	05-16-2002	KASAPI, ATHANASIOS A, et al.		
149	US-20020077152	06-20-2002	JOHNSON, THOMAS J, et al.		
150	US-20020090024	07-11-2002	TRAN, KENG TIONG, et al.		
151	US-20020101839	08-01-2002	FARLEY, KEVIN L, et al.		
152	US-20020122381	09-05-2002	WU, SHIHUAN, et al.		
153	US-20020122403	09-05-2002	HASHEM, BASSAM M, et al.		
154	US-20020147853	10-10-2002	CATREUX, SEVERINE, et al.		
155	US-20020172293	11-21-2002	KUCHI, KIRAN, et al.		

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Sheet	9	of	23	U.S. PATENT DOCUMENTS	Attorney Docket No. 060542
Application Number				09/931469	
Filing Date				8/16/2001	
First Named Inventor				LAROIA, RALPH, et al	
Art Unit				2462	
Examiner Name				JUNTIMA, NITTAYA	

Examiner Initials	Ch#	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
156	US-20020181571	12-05-2002	01-30-2003	YAMANO, LARRY C., et al	
157	US-20030020651	02-20-2003	02-27-2003	CRILEY, WILLIAM J. Jr., et al	
158	US-20030036359	02-27-2003	04-17-2003	DENT, PAUL W., et al	
159	US-20030040283	05-08-2003	05-22-2003	KAWAI, HIROYUKI, et al	
160	US-20030072254	06-12-2003	07-10-2003	MA, JIANGJIE, et al	
161	US-20030086371	07-10-2003	07-10-2003	WALTON, JAY R., et al	
162	US-20030096679	07-31-2003	08-28-2003	ITO, TAKUMI, et al	
163	US-20030109266	08-28-2003	09-04-2003	RAFLAH, MOSHE, et al	
164	US-20030125040	09-04-2003	10-30-2003	WALTON, JAY R., et al	
165	US-20030128658	11-20-2003	12-25-2003	WALTON, JAY R., et al	
166	US-20030142729	07-31-2003	07-17-2003	SUBRAMANIAM, PARVATHANATHAN, et al	
167	US-20030161281	08-28-2003	09-04-2003	DULIN, DAVID R., et al	
168	US-20030161282	09-04-2003	10-30-2003	MEDVEDEV, IRINA, et al	
169	US-20030165189	10-30-2003	11-20-2003	KADOUS, TAMER, et al	
170	US-20030202660	11-20-2003	12-25-2003	TEDEMANN, EDWARD G. JR., et al	
171	US-20030216156	12-25-2003	01-01-2004	CHUN, BYUNG-JIN, et al	
172	US-20030235255	07-17-2003		KETCHUM, JOHN W., et al	
173	US-20030133426	01-01-2004		SCHEIN, BRETT, et al	
174	US-20040001460			BEVANI, DAVID DAMIAN	
				NICHOLAS, et al	

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Examiner Initials*	Cite No.†	Document Number Number/Kind (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or References Appear
	176	US-2004/0009783	01-15-2004	MIYOSHI, KENICHI, et al	
	176	US-2004/0010623	01-15-2004	SHER, SHARON, et al.	
	177	US-2004/0015692	01-22-2004	GREEN, MARK RAYMOND, et al	
	178	US-2004/0017785	01-29-2004	ZELST, ALBERT VAN, et al	
	179	US-2004/0042558	03-04-2004	HVWANG, CHAN-SOO, et al	
	180	US-2004/0048609	03-11-2004	KOSAKA, MINORU, et al	
	181	US-2004/0048630	03-11-2004	SHAPIRA, AHARON, et al	
	182	US-2004/0054999	03-18-2004	WILLEN, JAMES W., et al	
	183	US-2004/0057394	03-25-2004	HOLTZMAN, JACK M., et al	
	184	US-2004/0066754	04-08-2004	HOTTINEN, ARI, et al	
	185	US-2004/0066761	04-08-2004	GIANNAKIS, GEORGIOS B., et al	
	186	US-2004/0067756	04-08-2004	WAGNER, STEFAN, et al	
	187	US-2004/0081073	04-29-2004	WALTON, J RODNEY, et al	
	188	US-2004/0086907	05-20-2004	AGEE, BRIAN G., et al	
	189	US-2004/0097240	05-20-2004	CHEN, LAN, et al	
	190	US-2004/0098605	05-20-2004	CLEMENSEN, DANIEL G, et al	
	191	US-2004/0128605	07-01-2004	SIBECAS, SALVADOR, et al	
	192	US-2004/0131007	07-08-2004	SMEE, JOHN, et al	

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Application Number		09/931469	
Filing Date		8/16/2001	
First Named Inventor		LARCIA, Rajiv, et al.	
Art Unit		2462	
Examiner Name		JUNTIMA, NITTAYA	
Attorney Docket No.: 060542			

U.S. PATENT DOCUMENTS			
Examiner Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY
193	US-20040131008	07-08-2004	
194	US-20040131038	07-08-2004	
195	US-20040131110	07-08-2004	
196	US-20040136344	07-15-2004	
197	US-20040156328	08-12-2004	
198	US-20040160914	08-19-2004	
199	US-20040160933	08-19-2004	
200	US-20040162083	08-19-2004	
201	US-20040165664	08-26-2004	
202	US-20040166867	08-26-2004	
203	US-20040170157	09-02-2004	
204	US-20040171385	09-02-2004	
205	US-20040178954	09-16-2004	
206	US-20040179506	09-16-2004	
207	US-20040218520	11-04-2004	
208	US-20040219819	11-04-2004	
209	US-20040219919	11-04-2004	
210	US-20040228267	11-18-2004	

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Art Unit

2462

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U.S. PATENT DOCUMENTS

Examiner's Initials ^a	Cite No. ^b	Document Number Number and Kind of Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	229	US-20050128683	06-16-2005	WATANABE, YASUO, et al.	
	230	US-20050135324	06-23-2005	KIM, YUN-HEE, et al.	
	231	US-20050147025	07-07-2005	AUER, GUNTHER, et al.	
	232	US-20050152484	07-14-2005	SANDHU, SUMEET, et al.	
	233	US-20050157807	07-21-2005	SHIM, DONG-HEE, et al.	
	234	US-20050174981	08-11-2005	HEATH, ROBERT W. Jr., et al.	
	235	US-20050181799	08-18-2005	LAROA, RAJIV, et al.	
	236	US-20050201296	09-15-2005	VANNITHAMBY, RATH, et al.	
	237	US-20050215251	09-29-2005	KRISHNAN, RANGANATHAN, et al.	
	238	US-20050226204	10-13-2005	UEHARA, TERUAKI, et al.	
	239	US-20050246548	11-03-2005	LAITINEN, PEKKA, et al.	
	240	US-20050254477	11-17-2005	LEE, KYUNG-CHUN, et al.	
	241	US-20050254556	11-17-2005	FUJII, HIROMASA, et al.	
	242	US-20050259723	11-24-2005	BLANCHARD, SCOTT D., et al.	
	243	US-20050265220	12-01-2005	ERLICH, YOSHI, et al.	
	244	US-20050271012	12-08-2005	AGRAWAL, AVNEESH, et al.	
	245	US-20050276347	12-15-2005	MUTABA, SYED AON, et al.	
	246	US-20050281029	12-22-2005	INAMOTO, MASAYUKI, et al.	

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Application Number Filing Date First Named Inventor Art Unit Examiner Name		Publication Date MM-DD-YYYY		Name of Patentee or Applicant of Cited Document		Pages, Columns, Relevant Passages or Relevant Figures Appear	
09/9/2010 09/16/2001 LARJOIA, Rajiv, et al 2462 JUNTIMA, NITTAYA		12-22-2005 12-29-2005 12-29-2005 03-10-2005 06-16-2005 01-26-2006 01-26-2006		KHANDEKAR, AAMOD, et al JIN, YONGSEOK, et al CUDAK, MARK C, et al LIN, CHIH-LUNG, et al KIM, EUNG-SUN, et al AGRAWAL, Avneesh, et al SAMPATH, Hemant, et al SUN HSU, Windsor Wee, et al OZLUTURK, Fatih, et al KIM, Myeong-cheol, et al CHOI, Seung-hoon, et al WALLACE, Mark S, et al HOTTINEN, Ari, et al WALTON, Jay Rodney, et al LARJOIA, Rajiv, et al THOMAS, Timothy A, et al KUZMINSKY, Alexandr, et al RO, Jung-min, et al SAMPATH, Hemant, et al		12-22-2006 02-16-2006 02-23-2006 03-02-2006 03-09-2006 03-16-2006 03-30-2006 02-02-2006 02-16-2006 02-23-2006 03-02-2006 03-09-2006 03-16-2006 03-30-2006 04-20-2006 05-04-2006 05-25-2006 06-15-2006 06-22-2006	

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Attorney Docket No.: 060542

Examiner Initials	Cite No.	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Relevant Passages or Relevant Figures Appear
	247	US-20050281290	12-22-2005	KHANDEKAR, AAMOD, et al	
	248	US-20050286408	12-29-2005	JIN, YONGSEOK, et al	
	249	US-20050289256	12-29-2005	CUDAK, MARK C, et al	
	250	US-20050053151	03-10-2005	LIN, CHIH-LUNG, et al	
	251	US-20050128983	06-16-2005	KIM, EUNG-SUN, et al	
	252	US-20060183447	01-26-2006	AGRAWAL, Avneesh, et al	
	253	US-2006018397	01-26-2006	SAMPATH, Hemant, et al	
	254	US-2006026344	02-02-2006	SUN HSU, Windsor Wee, et al	
	255	US-2006034164	02-16-2006	OZLUTURK, Fatih, et al	
	256	US-2006040655	02-23-2006	KIM, Myeong-cheol, et al	
	257	US-2006045003	03-02-2006	CHOI, Seung-hoon, et al	
	258	US-20060050770	03-09-2006	WALLACE, Mark S, et al	
	259	US-20060056340	03-16-2006	HOTTINEN, Ari, et al	
	260	US-20060067421	03-30-2006	WALTON, Jay Rodney, et al	
	261	US-20060083159	04-20-2006	LARJOIA, Rajiv, et al	
	262	US-20060093065	05-04-2006	THOMAS, Timothy A, et al	
	263	US-20060109814	05-25-2006	KUZMINSKY, Alexandr, et al	
	264	US-20060126491	06-15-2006	RO, Jung-min, et al	
	265	US-20060133521	06-22-2006	SAMPATH, Hemant, et al	

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Application Number 09/931469	
Filing Date 8/16/2001	
First Named Inventor LAROJA, Rajiv, et al.	
Art Unit 2462	
Examiner Name JUNTIMA, NITTAYA	
Attorney Docket No.: 080542	

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266		US-20060140289	06-29-2006	
267		US-20060156534	07-13-2006	
268		US-20060209764	09-21-2006	
269		US-20060233131	10-19-2006	
270		US-20060270427	11-30-2006	
271		US-20060286974	12-21-2006	
272		US-20060286982	12-21-2006	
273		US-20060286985	12-21-2006	
274		US-20060291371	12-28-2006	
275		US-20040032443	02-19-2004	
276		US-20070025345	02-01-2007	
277		US-20070041311	02-22-2007	
278		US-20070049218	03-01-2007	
279		US-20070053282	03-08-2007	
280		US-20070097863	05-03-2007	
281		US-20070097889	05-03-2007	
282		US-20070097908	05-03-2007	
283		US-20070097910	05-03-2007	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Attorney Docket No: 060542

Application Number	09/931469
Filing Date	8/16/2001
First Named Inventor	LAROA, Rajiv, et al
Art Unit	2462
Examiner Name	JUNTIMA, NITTAYA

U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS					Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Examiner Initials ^a	Cite No.	Document Number Number/Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
	284	US-20070097922	05-03-2007	PAREKH; Niteshkumar J.; et al.	
	285	US-20070097981	05-03-2007	PAPASAKELLARIDOU; Ais; et al.	
	286	US-20070098050	05-03-2007	KHANDEKAR; Aamod; et al.	
	287	US-20070098120	05-03-2007	WANG; Michael Mao; et al	
	288	US-20070098666	05-03-2007	ASTEL Y; David; et al.	
	289	US-20070160115	07-12-2007	PALANKI; Ravi; et al.	
	290	US-20070166738	07-19-2007	BARRIAC; Gwendolyn D.; et al.	
	291	US-20070177681	08-02-2007	CHOI; In-kyeong; et al.	
	292	US-20070183303	08-09-2007	Pi; Zhouyue; et al.	
	293	US-20070211616	09-13-2007	KHANDEKAR; Aamod; et al.	
	294	US-20070230324	10-04-2007	Li; Xiaodong; et al	
	295	US-20070263743	11-15-2007	LEE; Yu-ro; et al	
	296	US-20080039129	02-14-2008	Li; Xiaodong; et al.	
	297	US-20080095223	04-24-2008	TONG; Wen; et al.	
	298	US-20080263279	10-16-2008	MA; Jiangfei; et al.	
	299	US-20080003466	01-01-2009	TAHERZADEHBOROUJEN i; Mahmoud; et al.	
	300	US-20090197646	08-06-2009	TAMURA; Motoishi; et al.	

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First Named Inventor	LAROLA, Raul, et al.
Art Unit	2462
Examiner Name	JUNTIMA, NITTAYA
Attorney Docket No.	060542

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code, ² Number, ³ Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Figures Appear
	335	WO-0219748A1	03-07-2002	MOTOROLA INC [US] et al.	1
	336	WO-0249306A2	06-20-2002	BROADSTORM TELECOMMUNICATIONS CORPORATION INC [US] et al.	1
	337	WO-03001696A2	01-03-2003	SEPURA LTD [GB] et al.	1
	338	WO-03001981A2	01-09-2003	US GOVERNMENT [US] et al.	1
	339	WO-03003671A2	01-09-2003	SEPURA LTD [GB] et al.	1
	340	WO-2004038988A2	05-06-2004	QUALCOMM INC [US] et al.	1
	341	WO-2004040690A2	05-13-2004	NOKIA CORP [FI] et al.	1
	342	WO-2004040827A2	05-13-2004	QUALCOMM INC [US] et al.	1
	343	WO-2004086706A1	10-07-2004	DOCOMO COMM LAB EUROPE GMBH [DE] et al.	1
	344	WO-2004086711A1	10-07-2004	TELLA AB [SE] et al.	1
	345	WO-2004086851A2	11-04-2004	FLARION TECHNOLOGIES INC [US] et al.	1
	346	WO-20040988072A2	11-11-2004	MOTOROLA INC [US] et al.	1
	347	WO-2005015795A1	02-17-2005	TELECOM ITALIA SPA [IT] et al.	1
	348	WO-2005015941A2	02-17-2005	QUALCOMM INC [US] et al.	1
	349	WO-2005056527A1	06-16-2005	QUALCOMM INC [US] et al.	1
	350	WO-2005065062A2	07-21-2005	LG ELECTRONICS INC [KR] et al.	1
	351	WO-2005069538A1	07-28-2005	DELTEC, INC PBNEXT [US] et al.	1

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	352	WO-200509853A1	10-13-2005	QUALCOMM INC [US] et al.	<input type="checkbox"/>
	353	WO-200602634A1	03-09-2006	QUALCOMM INC [US] et al.	<input type="checkbox"/>
	354	WO-200609678A1	09-14-2006	QUALCOMM INC [US] et al.	<input type="checkbox"/>
	355	WO-200609934A1	09-21-2006	QUALCOMM INC [US] et al.	<input type="checkbox"/>
	356	WO-200613403A1	12-21-2006	SIEMENS AG [DE] et al.	<input type="checkbox"/>
	357	WO-200613819A1	12-28-2006	QUALCOMM FLARION TECH [US] et al.	<input type="checkbox"/>
	358	WO-200613857A2	12-28-2006	QUALCOMM INC [US] et al.	<input type="checkbox"/>
	359	WO-200702483A2	03-01-2007	QUALCOMM INC [US] et al.	<input type="checkbox"/>
	360	WO-2007051159A2	05-03-2007	QUALCOMM INC [US] et al.	<input type="checkbox"/>
	361	WO-9652149A1	08-10-1995	QUALCOMM INC [US] et al.	<input type="checkbox"/>
	362	WO-9613920A1	05-09-1996	IBM [US] et al.	<input type="checkbox"/>
	363	WO-9749033A2	12-04-1997	PHILIPS ELECTRONICS NV [NL] et al.	<input type="checkbox"/>
	364	WO-9814026A1	04-02-1998	QUALCOMM INC [US] et al.	<input type="checkbox"/>
	365	WO-9944313A1	09-02-1999	SIEMENS AG [DE] et al.	<input type="checkbox"/>
	366	WO-9944383A1	09-02-1999	SIEMENS AG [DE] et al.	<input type="checkbox"/>
	367	WO-9959265A1	11-18-1999	SAMSUNG ELECTRONICS CO LTD [KR] et al.	<input type="checkbox"/>

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<table border="1"> <tr> <td>Application Number</td> <td>09/931469</td> </tr> <tr> <td>Filing Date</td> <td>8/16/2001</td> </tr> <tr> <td>First Named Inventor</td> <td>LAROLA, Raul, et al.</td> </tr> <tr> <td>Art Unit</td> <td>2462</td> </tr> <tr> <td>Examiner Name</td> <td>JUNTIMA, NITTAYA</td> </tr> <tr> <td>Attorney Docket No.</td> <td>060542</td> </tr> </table>				Application Number	09/931469	Filing Date	8/16/2001	First Named Inventor	LAROLA, Raul, et al.	Art Unit	2462	Examiner Name	JUNTIMA, NITTAYA	Attorney Docket No.	060542
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Examiner Name	JUNTIMA, NITTAYA														
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not considered:	368	3GPP TS 33.220 V.1.1.0 XX.XX, "3rd GENERATION PARTNERSHIP PROJECTS: TECHNICAL SPECIFICATION ARCHITECTURE (GAA): GENERIC BOOTSTRAPPING ARCHITECTURE (RELEASE 9)", 9 FEBRUARY 2004, Pgs. 1-17, Figure 4, XP002999023.	
no publication date provided.	370	DAISAKI, et al., "Adaptive Frame Length Control for Mobile Radio with Broad Band Multicarrier Communications System (Phase 2)", Mobile radio interface layer 3 specification GSM 04.08 version 7.7.1 Release 1998), ETSI EN 300 940 V7.7.1 (2000-10), pp. 1, 2, 91-93.	
	371	FAVRE et al., "Self-Adaptive Transmission Procedure", IBM Technical Disclosure Bulletin, IBM Corporation, September 1976, vol. 19, no. 4, pp. 1283-1284, New York, New York.	
	372	FUCHS, et al., "A Novel Tree-Based Scheduling Algorithm for the Downlink of Multi-User MIMO Systems with ZF Beamforming", IEEE International Conference on Acoustics, Speech, and Signal Processing, 2005, Proceedings, Philadelphia, PA, pp. 1121-1124.	
	373	GROE, et al., "CDMA Mobile Radio Design", September 26, 2001, Artech House, Norwood, MA 02062, pp. 257-269.	
	374	International Search Report - PCT/US01/028315, International Search Authority - European Patent Office, 06-21-02 (060542).	
	375	INTERNATIONAL SEARCH REPORT PCT/US06/003947--INTERNATIONAL SEARCH AUTHORITY--EUROPEAN PATENT OFFICE, 06/12/06.	
	376	JOHN B. GROE, LAWRENCE E. LARSON, "CDMA Mobile Radio Design", 26 September 2001 (2001-09-26), Artech House, Norwood, MA 02062 580530, XP002397567, pages 1-15.	
	377	LAROLA, R. ET AL., "An integrated approach based on cross-layer optimization - Designing a mobile broadband wireless access network", IEEE Signal Processing Magazine, IEEE Service Center, Piscataway, NJ, US, vol. 21, no. 5, September 2004 (2004-09), pages 20-28, XP01118149.	
not considered	378	LAU, et al., "On the Design of MIMO Block-Fading Channels with Feedback-Link Capacity Constraint", IEEE Transactions on Communications, IEEE Service Center, Piscataway, NJ, U.S., v. 52, no. 1, January 2004 (2004-01), pp. 62-70, XP001185908.	
no publication date provided	379	LEITERI, et al., "Adaptive frame length control for improving wireless link throughput range, and energy efficiency", INFOCOM 98 - 17th Annual Joint Conference of the IEEE	

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Application Number Filing Date First Named Inventor Art Unit Examiner Name				Complete if known 09/931469 8/16/2001 LAROLA, Ralf, et al. 2462 JUNTIMA, NITTAYA

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	360	Computer and Communications Societies, March 29, April 2, 1998, pp. 564-571, vol. 2, IEEE San Francisco, CA, New York, New York	
	361	MOLISCH, et al. "MIMO systems with antenna selection," IEEE Microwave Magazine, URL: http://ieeexplore.ieee.org/iel5/66689/2891770/1284943.pdf , Retrieved on December 8, 2006, pp. 46-56 (2006), T. DIENKS, C. ALLEN, CERTICOM, "THE TLS PROTOCOL VERSION 1.0," JANUARY 1999	
	382	NIT Doccom et al. "Orthogonal Common Pilot Channel and Scrambling Code in Evolved UTRA Downlink," 3GPP TSG RAN WG1 #42 on LTE, pp. 1-8 (Aug-Sept 2005), TAI/EA/IS-2000 "STANDARDS FOR CDMA2000 SPREAD SPECTRUM SYSTEMS" VERSION 1.0 JULY 1999	
	383	TAI/EA/IS-95 "MOBILE STATION-BASE STATION COMPATIBILITY STANDARD FOR DUAL-MODE WIDEBAND SPREAD SPECTRUM CELLULAR SYSTEM," JULY 1993	
	384	Specification: "3GPP2 C.S0084-001-0, Version 2.0 (August 2007)	
	385	TAI-1121.002 "Medium Access Control Layer for Ultra Mobile Broadband (UMB) Air Interface Specification," 3GPP2 C.S0084-002-0, Version 2.0 (August 2007)	
	386	TOMCIK, J. "MBFDD and MBTD Wideband Mode Technology Overview," IEEE 802.20 Working Group Mobile Broadband Wireless Access, January 2006, pgs 1-109, XP002429968	
	387	TOMCIK, J. "QPD Technology Overview Presentation," IEEE 802.20 Working Group on Mobile Broadband Wireless Access, Slides/PP. 1-73, 11/19/05 and 10-28-05/VEHICULAR TECHNOLOGY CONFERENCE 2004, August 2004, PAL 2004 IEEE 80TH LOS ANGELES, CA USA 26-29 September 2004 (2004-09-26), pages 1129-1133, XP010766798, ISBN: 07-7803-8521-7	
	388	ZEKRI, et al. "DMT Signals with Low Peak-to-Average Power Ratio," Proceedings, IEEE International Symposium on Computers and Communications, 1999, 6-8 July 1999, pp. 362-368.	
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